December 21, 2023

Makiko Mase

The list of academic papers

- Academic papers with referee

[1] M. KOBAYASHI and M. MASE, Isomorphism among families of weighted $K3$ hypersurfaces, Tokyo J. Math., vol.35, No.2, pp.461–467 (2012).

[2] M. KOBAYASHI, M. MASE, K. UEDA, A note on exceptional unimodal singularities and $K3$ surfaces, International Mathematics Research Notices 2013; 2013:1665-1690, March 28, 2013 (doi: 10.1093/imrn/rns098). Published online at http://imrn.oxfordjournals.org/ on 13 March 2012.

[3] Makiko MASE, Families of $K3$ surfaces in smooth Fano 3-folds, Commentarii Mathematici Univ. St. Pauli, vol. 61, No.2, pp.103–114 (2012).

[4] Makiko MASE, Families of $K3$ surfaces in smooth Fano 3-folds with Picard number 2, Vietnam Journal of Mathematics, vol.42, No.3, pp.295–304 (2014).

[5] M. MASE and K. Ueda, A note on bimodal singularities and mirror symmetry, Manuscripta Math., published online on 31 August 2014, vol.146, Issue 1–2, pp.153–177 (2015), DOI 10.1007/s00229-014-0693-7.

[6] Makiko MASE, A mirror duality for families of $K3$ surfaces associated to bimodular singularities, Manuscripta Math., published online on 26 September 2015, vol. 149, Issue 3–4, pp.389–404 (2016), DOI 10.1007/s00229-015-0788-9.

[7] M.-J.BERTIN, A.GARBAGNATI, R.HORTSCH, O.LECACHEUX, M.MASE, C.SALGADO, and U.WHITCHER, Classifications of elliptic fibrations of a singular $K3$ surface, in Women in Numbers Europe Research Directions in Number Theory, Association for Women in Mathematics Series vol. 2, M.-J. Bertin, A. Bucur, B. Feigon, L.Schneps eds, pp.17–50, Springer 2015.

[8] Makiko MASE, Polytope duality for families of $K3$ surfaces associated to transpose duality, Commentarii Math. St. Pauli., vol. 65, No.2, pp.131–139 (2016).

[9] Makiko MASE, Lattice duality for families of $K3$ surfaces associated to transpose duality, Manuscripta Math., published online on online 10 April 2017, vol. 155, Issue 1–2, pp.61–76 (2018), DOI 10.1007/s00229-017-0936-5.

[10] Makiko MASE, Families of $K3$ surfaces and curves of $(2,3)$-torus type, Kodai Math. J., vol. 42, (3), pp.409-430 (October 2019), DOI: 10.2996/kmj/1572487224.

[12] J. KOMEDA and M.MASE, Curves on weighted $K3$ surfaces of degree two with symmetric Weierstrass semigroups, Tsukuba J. Math., vol 43, (1), pp. 55-70 (2019).

[13] Makiko MASE, Polytope duality for families of $K3$ surfaces and coupling, Bulletin of the Brazilian Mathematical Society, New Series, vol. 52, pp, 499–536 (2021), published online on 24 June 2020, https://doi.org/10.1007/s00574-020-00215-8.

[14] C. HERTLING and M.MASE, The integral monodromy of isolated quasihomogeneous singularities, Algebra & Number Theory, **16** (4), 955–1024 (2022). https://doi.org/10.2140/ant.2022.16.955.

[15] Makiko MASE, Lattice duality for coupling pairs admitting polytope duality with trivial toric contribution, Published: 20 August 2021, Beiträge zur Algebra und Geometrie/Contributions to Algebra and Geometry, **63**, 533—559 (2022). https://doi.org/10.1007/s13366-021-00592-1

[16] C. HERTLING and M.MASE, The integral monodromy of the cycle type singularities, J. of Singularities, **25**, 268–298 (2022). https://doi.org/10.5427/jsing.2022.25l

[17] C. Hertling and M. Mase, The combinatorics of weight systems and characteristic polynomials of isolated quasihomogeneous singularities, J. Algebr. Comb. (2022). Published: 09 May 2022. https://doi.org/10.1007/s10801-022-01138-x

[18] M.MASE and U.WHITCHER, Mirror constructions for $K3$ surfaces from bomidal singularities, to appear.

[19] J.KOMEDA and M.MASE, Pointed curves on $K3$ surfaces which are double covers of rational elliptic surfaces, Tsukuba J. Math., vol 47, (1), pp. 65–82

(2023).

[20] Makiko MASE, A note on simple $K3$ singularities and families of weighted $K3$ surfaces, Rend. Circ. Mat. Palermo, II. Ser (2023). https://doi.org/10.1007/s12215-023-00894-4.

[21] J.KOMEDA and M.MASE, Non-$K3$ Weierstrass numerical semigroups, to appear.

- Academic papers preprint

[1] Makiko MASE, Polytope duality for families of $K3$ surfaces associated to singularities Q16 and S16, arXiv:1910.10600, 2019.

[2] Makiko MASE, Lattice duality for families of $K3$ surfaces and coupling, submitted.

[3] Makiko MASE, Primitive closure of the lattices associated to symplectic automorphisms on $K3$ surfaces, in preparation.

- Academic papers without referee

[1] Makiko Mase, "On families of weighted $K3$ surfaces" (Japanese), Series # 142, January 2010, Department of Mathematics, pp.84–87. (The 6th Mathematics Conference for Young Researchers –MCYR6–, Hokkaido University Technical Report Series in Mathematics).

[2] Makiko Mase, "On isomorphism among the families of weighted $K3$ hypersurfaces", electrical report of Algebraic Geometry Mini Workshop 2010 http://www.rimath.saitama-u.ac.jp/lab.jp/fsakai/proc2010.html

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[12] Makiko Mase, "Dualities among families of $K3$ surfaces associated to bimodular singularities", report of Kinosaki Algebraic Geometry Symposium 2014, pp. 31–41.

[13] Makiko Mase, "The lattice mirror symmetry for families of $K3$ surfaces associated to bimodular singularities", report of The 13th Symposium of Algebraic Curves 2015, pp.91–96.

[14] Makiko Mase, "On families of $K3$ surfaces" (Japanese), report of The 9th Meeting of Women in Numbers Japan, pp.123–130, (2016).

[15] Makiko Mase, "On dualities among families of $K3$ surfaces" (Japanese), report of The 9th Meeting of Women in Numbers Japan (2017).

[16] Makiko Mase, "Families of $K3$ surfaces and curves of $(2,3)$-torus type" (Japanese), report of The 11th Meeting of Women in Numbers Japan (2018).

[17] Numerical semigroups and curves on $K3$ surfaces, report of The 19th Symposium of Algebraic Curves 2021.

[18] Makiko Mase, "On some lattice structures associated to simple $K3$ singularities" (Japanese), report of The 15th Meeting of Women in Numbers Japan (2022).

[19] Makiko Mase, "On dualities related to coupling", to appear in the Report for Kinosaki Algebraic Geometry Symposium 2023.